

EXPRESS MAIL MAILING LABEL: ER 224689545 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: RANSOM et al.

et al. Group Art Unit: n/a

Serial No.: n/a Examiner: n/a

Filed: Contemporaneous Herewith

Entitled: Screw Pump Atty. Dkt.: M02B154

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

The Examiner's attention is directed to the documents identified on the attached Forms PTO/SB/08A and PTO/SB/08B "Information Disclosure Statement By Applicant." A copy of each non-US patent document is enclosed.

Please consider all the listed documents and list them on the cover sheet of any patents to issue from the subject application.

The Information Disclosure Statement submitted herewith is being filed within three months of the filing date of the application or within three months of the date of entry of the National Phase of an international application or before the mailing of a first Office Action on the merits.

In accordance with 37 CFR 1.97(b), no additional fee is due. As a precaution, the Commissioner is hereby authorized to charge to Deposit Account No. 02-2865 any fee required by this submission.

Very truly yours,

Reg. No. 31,147

1ra Lee Zebrak ∕Esq.

Attorney for Applicant(s)

The BOO Group, Inc.

Legal Services - Intellectual Property

575 Mountain Avenue Murray Hill, NJ 07974

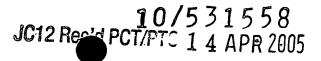
(908) 771-6469

Attachments

Forms PTO/SB/08A and PTO/SB/08B

Cited References

ILZ:bjl



EXPRESS MAIL MAILING IN ER 224689545 US

US-

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known

Substitute for form 1449/PTO Application Number Filing Date INFORMATION DISCLOSURE First Named Inventor RANSOM et al. STATEMENT BY APPLICANT **Art Unit** (Use as many sheets as necessary) **Examiner Name** Attorney Docket Number M02B154 Sheet

U. S. PATENT DOCUMENTS Cite Name of Patentee or Examiner Document Number Publication Date Pages, Columns, Lines, Where MM-DD-YYYY Applicant of Cited Document Relevant Passages or Relevant Initials* Figures Appear Number-Kind Code² (if known) ^{US-} 5 961 291 Sakagami et al. 1 10-05-1999 ^{US-} 4 983 106 A 2 Wright et al. 01-01-1991 ^{US-} 4 983 107 A 3 01-08-1991 Steffens et al. ^{US-} 4 294 402 A 10-13-1981 Vollmer 4 ^{us-} 5 040 949 5 08-20-1991 Crinquette et al. ŬS-ŪS-US-US-US-US-US-IIS-IIS. US-ŪS-US-

		FORE	IGN PATENT DOCL	JMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ "Number ⁴ "Kind Code ⁵ (if known)	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
			MM-DD-YYYY		Or Relevant Figures Appear	T
	6	WO 03/042542 A	05-22-2003	Leybold Vakuum		
	7	DE 198 20 523 A	11-11-1999	Frieden		
	8	GB 1 160 551 A	08-06-1969	Kealy		
	9	DE 23 05 502 A	03-15-1974	Baehr		
	10	DE 32 03 322 A	09-22-1983	Hilbers		
	11	DE 29 26 599 A	01-15-1981	Battelle Instit		

Examiner	Date	
	· Date	
Signature	Consideration	
Oignature	Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Senter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

EXPRESS MAIL MAILING LABEL:

ER 224689545 US

PTO/SB/08A (08-03) Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

Application Number

Filing Date
First Named Inventor RANSOM et al.

Art Unit

(Use as many sheets as necessary)

Examiner Name

Sheet 2 of 5 Attorney Docket Number M02B154

U. S. PATENT DOCUMENTS							
Examiner Cite Initials* No.1	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant		
	<u> </u>	Number-Kind Code ^{2 (if known)}			Figures Appear		
	-	US-					
		US-					
		US-					
		US-					
		US-					
	 	US-					
		US-					
78.7		US-					
		US-					
		US-					
		US-					
		US-					
		US-					
	· · · · · · · · · · · · · · · · · · ·	US-					
_		US-					
		US-					
		US-					
		US-					
		US-					

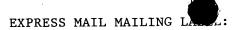
		FORE	IGN PATENT DOCL	JMENTS	-	
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T°
	12	DE 23 41 526 A	03-20-1975	Samson Appbau		
	13	EP 0 827 057 A	03-04-1998	Deutsch Zentr		
	14	GB 2 081 845 A	02-24-1982	Trucktonics Ltd		
	15	WO 01/33080 A1	05-10-2001	Alceru Schwarza		
	16	GB 2 347 643 A	09-13-2000	A-Z Formen-und		
	17	SU 1718759 A1	03-15-1992	Fialkov et al.		

Examiner	Date		
Signature	Considered	}	
('			

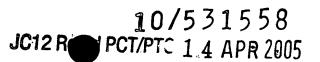
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



ER 224689545 US



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Subs	stitute for form 1449/PTO		Complete if Known		
000			Application Number		
181	CODRAGTION	DICCL OCUDE	Filing Date		
		DISCLOSURE	First Named Inventor	RANSOM et al.	
S	TATEMENT B'	Y APPLICANT	Art Unit		
(Use as many sheets as necessary)			Examiner Name		
Sheet	[3]	of 5	Attorney Docket Number	M02B154	

Examiner	Cito	Decument Number	U. S. PATENT D	Name of Patentee or	Pages, Columns, Lines, Where	
Initials*	Cite No. ¹	Document Number	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear	
		Number-Kind Code ^{2 (ff known)}	· · · · · · · · · · · · · · · · · · ·			
		US-	ľ			
		US-				
		US-	<u> </u>			
		US-				
		US-				
•		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US				
		US-				
		US-				
		US-				
		US-				

Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ^{3 -} Number ^{4 -} Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	Τ°
	18	DD 150 360 A	08-26-1981	Reso et al.		
	19	JP 2149795 A	06-08-1990	Hitachi Ltd		
	20	JP 9256975 A	09-30-1997	Hitachi Ltd		
	21	JP 59079093 A	05-08-1984	Hitachi Ltd		

Examiner	Date	
Signature	Considered	
Olginataro	Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

EXPRESS MAIL MAILING BEL: ER 224689545 US

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

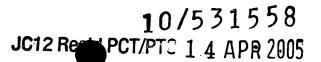
Substitu	ite for form 1449/PTO			Complete if Known			
Coosino	ite 101 101111 1449/1 10			Application Number			
INF	ORMATION	DIS	CLOSURE	Filing Date			
STA	STATEMENT BY APPLICANT			First Named Inventor	RANSOM et al.		
	(Use as many she	ata aa m	occorand	Art Unit		<u></u>	
	(Use as many sne	els as n	ecessary)	Examiner Name		 	
Sheet	4	of	5	Attorney Docket Number	M02B154		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	22	PATENT ABSTRACTS OF JAPAN, vol. 008, no. 238 (M-335), October 31, 1984; JP 59 115492 A (Hitachi Seisakusho KK), July 3, 1984, abstract	
	23	PATENT ABSTRACTS OF JAPAN, vol 1995, no. 02, (March 31, 1995); JP 06 330875 A (Seiko Seiki Co Ltd), (11-29-1994), abstract	
	24	PATENT ABSTRACTS OF JAPAN, vol. 017, no. 544 (M-1489), September 30, 1993; JP 05 149287 A (Hitachi Ltd; others: 01), June 15, 1993, abstract	
	25	PATENT ABSTRACTS OF JAPAN, vol. 1998, no. 02, January 30, 1998; JP 09 268993 A (Tochigi Fuji Ind Co Ltd), October 14, 1997, abstract	
	26	United Kingdom Search Report for Application No. GB 0223769.1; Date of search: November 18, 2003	
	27	PCT International Search Report of International Application No. PCT/GB 03/04415; Date of mailing: March 5, 2004	
	28	United Kingdom Search Report for Application No. GB 0223769.1; Date of search: April 22, 2003	
	29	ALEKSANDR N. FIALKOV, EVGENIYA A. FIALKOVA, VLADIMIR G. KULENKO; Abstract of SU1718759 A, "Crystallizer-Cooler," March 15, 1992	
	30	ANNE RESO, HEIDI SCHMIDT, MANUELA EGGERT, KERSTIN JAEKEL, DIETER PROCKAT, ULRICH REICHELT; Abstract of DD 150360 A, "Screw Compressor for Refrigerant-Injects	
		Lubricant-Sealant Oil, Drives Rotary Oil Separator, Has Jacket for Direct Water Cooling," August 26, 1981	

Examiner		Date	
Signature		Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



EXPRESS MAIL MAILING ER 224689545 US

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449/PTO Application Number Filing Date INFORMATION DISCLOSURE STATEMENT BY APPLICANT First Named Inventor RANSOM et al. Art Unit (Use as many sheets as necessary) **Examiner Name** Attorney Docket Number Sheet 15 5 M02B154

		NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*				
	HITOSHI NISHIMURA, Abstract of JP 2149795 A, "Oilless Screw Compressor," Hitachi Ltd, June 8, 1990			
	32	HIROSHI OTA, HITOSHI NISHIMURA; Abstract of JP 9256975 A, "Installing Mechanism of Vibration Detecting Terminal of Rotor Bearing in Unlubricated Screw Compressor,"		
		Hitachi Ltd, September 30, 1997		
	33	KATSUMI MATSUBARA, RIICHI UCHIDA; Abstract of JP 59079093 A, "No-Oiling Type Screw Compressor," Hitachi Ltd, May 8, 1984		
	PATENT ABSTRACTS OF JAPAN, vol. 2000, no. 03, March 30, 2 Abstract of JP 11 336684 A (Hitachi Ltd), December 7, 1999; abstract			
-				
Examiner	T	Date	<u>' </u>	

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.